

**Missouri Mobile Source Timeline  
By Calendar Year**

<b><u>Year</u></b>	<b><u>Timeline Event</u></b>
1984	Paper-based basic* I/M program implemented in conjunction with annual safety inspection program in all nonattainment counties except Franklin County
1989	Stage II Vapor Recovery program implemented throughout nonattainment area
1990	Paper-based basic* I/M program upgraded to computer-based BAR 90 program
1992	EPA audit of BAR 90 program finds 84% of tests performed improperly
1994	Senate Bill 590 passes, authorizing the separation of the emissions I/M program from the safety I/M program and the design of a new centralized, enhanced** I/M program by the Missouri Air Conservation Commission
1995	Appropriations for enhanced** I/M program removed from department's budget
1996	I/M Program Advisory Committee convened to improve the design of the enhanced** I/M program
1997	Enhanced** I/M statutes found constitutional by Cole County Circuit Court. Request for Proposals released, soliciting bidders for a 30-zone I/M program and a data management contractor
1998	State receives one bid for data management contract, no bids for testing services. Request for Proposals is withdrawn. Legislature directs department to include clean screening in new Request for Proposals. Senate Bill 619 passes, authorizing reformulated gasoline in nonattainment area. All underground storage tanks are checked for compliance with federal leak-prevention regulations. New Request for Proposals is released.
1999	Two bids are received. Contract is awarded to bidder who scored highest in evaluation. Reformulated gasoline introduced in nonattainment area. Contractor begins acquiring land and building test stations.
2000	Enhanced** I/M program begins in four counties, basic* I/M program begins in Franklin County. Enhanced** I/M program uses phase-in test standards for 1981+ model year vehicles and advisory-only on-board diagnostics (OBD) testing for 1996+ model year vehicles. First in the country large-scale remote sensing-based clean screening implemented
2002	Enhanced** I/M program uses final test standards for 1981+ model year vehicles. Missouri Air Conservation Commission amends OBD and enhanced** I/M waiver requirements

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2003	Enhanced** I/M program implements new waiver requirements and phase-in OBD testing for 1996+ model year vehicles
2005	Enhanced** I/M program implements pass/fail OBD testing for 1996+ model year vehicles
*	Basic refers to the use of a static idle tailpipe test, not to the EPA's Basic I/M Performance Standard
**	Enhanced refers to the use of a dynamic transient tailpipe test, not to the EPA's Enhanced I/M Performance Standard

**Federal Mobile Source and  
Air Quality Timeline  
by Calendar Year**

<b><u>Year</u></b>	<b><u>Timeline Event</u></b>
1990	Clean Air Act Amendments
1994	<p>Fuels and Fuel Additives Registration Regulations: Standards for Reformulated and Conventional Gasoline</p> <p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines; Refueling Emission Regulations for Light-Duty Vehicles and Light-Duty Trucks</p> <p>Determination of Significance for Nonroad Sources and Emission Standards for New Nonroad Compression-Ignition Engines At or Above 37 Kilowatts</p> <p>Office of Air Quality Planning and Standards Fuels and Fuel Additives Registration Regulations</p> <p>Extension of Interim Revised Durability Procedures for Light-Duty Vehicles and Light-Duty Trucks</p> <p>Regulation of Fuels and Fuel Additives: Standards for Reformulated and Conventional Gasoline</p> <p>Regulation of Fuels and Fuel Additives: Renewable Oxygenate Requirement for Reformulated Gasoline</p> <p>Standards for Emissions From Natural Gas-Fueled, and Liquefied Petroleum Gas-Fueled Motor Vehicles and Motor Vehicle Engines, and Certification Procedures for Aftermarket Conversions</p> <p>Regulation of Fuels and Fuel Additives: Interim Requirements for Deposit Control Gasoline Additives</p> <p>Emission Standards for Clean-Fuel Vehicles and Engines, Requirements for Clean-Fuel Vehicle Conversions, and California Pilot Test Program</p> <p>Regulation of Fuels and Fuel Additives: Renewable Oxygenate Requirements for Reformulated Gasoline</p>
1995	<p>Inspection/Maintenance Program Requirements--Provisions for Redesignation</p> <p>Low Emission Vehicle Program for the Northeast Ozone Transport Region</p> <p>Regulations Requiring On-Board Diagnostic (OBD) Systems -- Acceptance of Revised California OBD II Requirements; OBD Relief for Alternative Fueled Vehicles; and Revisions for Consistency Between Federal OBD and California OBD II</p> <p>Control of Air Pollution From New and In-Use Motor Vehicles and New and In-Use Motor Vehicle Engines; Technical Amendments to the Test Procedures for Methanol-Fueled Motor Vehicles and Motor Vehicle Engines and Petroleum-Fueled Motor Vehicles</p> <p>Control of Air Pollution; Emission Standards for New Nonroad Spark-ignition Engines At or Below 19 Kilowatts</p> <p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines: Regulations Requiring On-Board Diagnostic (OBD) Systems--Regulations Allowing Optional Compliance with California OBD II Requirements as Satisfying Federal OBD</p>

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1995	<p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines: Regulations Requiring On-Board Diagnostic Systems--Revision to Requirements for Storage of Engine Conditions Associated With Extinguishing a Malfunction Indicator Light</p> <p>Regulation of Fuels and Fuel Additives: Administrative Stay of Certain Standards for Reformulated and Conventional Gasoline</p> <p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines: Regulations Requiring Availability of Information for Use of On-Board Diagnostic Systems and Emission-Related Repairs on 1994 and later Model Year Light-Duty Vehicles and Light-Duty Trucks</p> <p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines: Evaporative and Refueling Emission Regulations for Gasoline- and Methanol-Fueled Light-Duty Vehicles and Light-Duty Trucks and Heavy-Duty Vehicles; Technical Amendments</p>
1996	<p>Requirements for Determining Assigned Deterioration Factors for Alternative Fuel Vehicles, Amendments to Labeling Requirements for Inherently Low-Emission Vehicles, and Related Provisions</p> <p>Amendments to Regulations Governing the Importation of Nonconforming Vehicles</p> <p>Nonconformance Penalties for 1996 Model Year Emission Standards for Heavy-Duty Vehicles</p> <p>Nonconformance Penalties for 1996 and 1998 Model Year Emission Standards for Heavy-Duty Vehicles and Engines -- Part II</p> <p>Prohibition on Gasoline Containing Lead or Lead Additives for Highway Use</p> <p>Reduced Certification Reporting Requirements for New Nonroad Engines</p> <p>Control of Air Pollution; Removal and Modification of Obsolete, Superfluous or Burdensome Rules (Sec. 51.213 Transportation control measures)</p> <p>Controls Applicable to Gasoline Retailers and Wholesale Purchaser-Consumers; 10 Gallon Per Minute Fuel Dispensing Limit Requirement Implementation</p> <p>Regulation of Fuels and Fuel Additives: Certification Standards for Deposit Control Gasoline Additives</p> <p>Registration of Fuels and Fuel Additives: Minor Changes to the Testing Requirements for Registration</p> <p>Inspection/Maintenance Flexibility Amendments (Ozone Transport Region)</p> <p>I/M Program Requirement-On-Board Diagnostic Checks Correction</p> <p>Regulations Requiring On-Board Diagnostic (OBD) Systems--Acceptance of Revised California OBD II Requirements</p> <p>Minor Amendments to Inspection/Maintenance Program Requirements</p> <p>Control of Air Pollution From New and In-Use Motor Vehicles and New and In-Use Motor Vehicle Engines: Certification and Test Procedures</p> <p>Final Rule for New Gasoline Spark Ignition Marine Engines; Exemptions for New Nonroad Compression Ignition Engines at or Above 37 Kilowatts and New Nonroad Spark Ignition Engines at or Below 19 Kilowatts</p> <p>Final Regulations for Revisions to the Federal Test Procedure for Emissions From Motor Vehicles</p>

<b><u>Year</u></b>	<b><u>Timeline Event</u></b>
1996	<p>Amendments to Emission Requirements Applicable to New Nonroad Compression-Ignition Engines at or Above 37 Kilowatts: Provisions for Replacement Compression-Ignition Engines and the Use of On-Highway Compression-Ignition Engines in Nonroad Vehicles</p> <p>Revised Carbon Monoxide (CO) Standard for Class I and II Nonhandheld New Nonroad Phase 1 Small Spark-Ignition Engines</p> <p>Use of Alternative Analytical Test Methods in the Reformulated Gasoline Program</p> <p>Regulation of Fuels and Fuel Additives: Minor Revisions</p>
1997	<p>Regulation of Fuels and Fuel Additives: Adjustments to Individual Baselines for the Reformulated Gasoline and Anti-Dumping Programs</p> <p>Registration of Fuels and Fuel Additives: Changes in Requirements, and Applicability to Blenders of Deposit Control Gasoline Additives</p> <p>Registration of Fuels and Fuel Additives: Extension of Specified Deadlines for Atypical Additives and Biodiesel Fuels</p> <p>Control of Air Pollution; Amendment to Emission Requirements Applicable to New Gasoline Spark-Ignition Marine Engines</p> <p>Tier 2 (Phase 2) Study To Assess Further Reduction in Light-Duty Vehicle and Light-Duty Truck Tailpipe Emission Standards</p> <p>Control of Air Pollution From Aircraft and Aircraft Engines; Emission Standards and Test Procedures</p> <p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines: Voluntary Standards for Light-Duty Vehicles (National LEV)</p> <p>Control of Air Pollution; Amendments to Emission Requirements Applicable to New Nonroad Spark Ignition Engines At or Below 19 Kilowatts and New Marine Spark Ignition Engines: Provisions for Replacement Engines and the Use of Two Stroke Engines on Certain Nonhandheld Equipment</p> <p>Regulation of Fuels and Fuel Additives: Baseline Requirements for Gasoline Produced by Foreign Refiners</p> <p>Direct Final Rule Amending the Test Procedures for Heavy-Duty Engines, and Light-Duty Vehicles and Trucks and the Amending of Emission Standard Provisions for Gaseous Fueled Vehicles and Engines</p> <p>Transitional and General Opt Out Procedures for Phase II Reformulated Gasoline Requirements</p> <p>Motor Vehicles and Motor Vehicle Engines; Tampering Enforcement Policy for Alternative Fuel Aftermarket Conversions; Addendum to Mobile Source Enforcement Memorandum 1A (OECA)</p> <p>Removal of Requirement in Gasoline Deposit Control Additives Rule Regarding the Identification of the Oxygenate Content of Transferred Gasoline</p> <p>Fuels and Fuel Additives; Elimination of Oxygenated Fuels Program Reformulated Gasoline (OPRG) Category From the Reformulated Gasoline Regulations</p> <p>Control of Air Pollution: Emission Standards for New Nonroad Compression-Ignition Engines at or Above 37 Kilowatts; Preemption of State Regulation for Nonroad Engine and Vehicle Standards; Amendments to Rules</p> <p>Protection of Stratospheric Ozone (servicing motor vehicle air conditioners with CFC-12)</p>

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1997	Regulation of Fuels and Fuel Additives: Modifications to Standards and Requirements for Reformulated and Conventional Gasoline
1998	<p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines: State Commitments to National Low Emission Vehicle Program; Final Rule</p> <p>Minor Amendments to Inspection Maintenance Program Evaluation Requirements</p> <p>Phase 2 Emission Standards for New Nonroad Spark-Ignition Engines At or Below 19 Kilowatts</p> <p>Control of Air Pollution From Motor Vehicles and New Motor Vehicle Engines; Modification of Federal On-board Diagnostic Regulations for Light-Duty Vehicles and Light-Duty Trucks; Extension of Deficiency Policy</p> <p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines: Finding of National Low Emission Vehicle Program in Effect</p> <p>Retrofit/Rebuild Requirements for 1993 and Earlier Model Year Urban Buses; Additional Update of Post-Rebuild Emission Levels in 1998</p> <p>DEPARTMENT OF TRANSPORTATION Light Truck Average Fuel Economy Standard, Model Year 2000 AGENCY: National Highway Traffic Safety Administration (NHTSA)</p> <p>Emission Standards for Locomotives and Locomotive Engines</p> <p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines; Draft Tier 2 Study and Fuel Sulfur Paper Availability</p> <p>IM Program Requirement -- On-Board Diagnostic Checks; Amendment to the Final Rule</p> <p>Amendments to the Test Procedures for Heavy-Duty Engines, and Light-Duty Vehicles and Trucks and Amendments to the Emission Standard Provisions for Gaseous Fueled Vehicles and Engines</p> <p>Emissions Standards for Imported Nonroad Engines AGENCY: U.S. Customs Service, Department of the Treasury</p> <p>Regulation of Fuels and Fuel Additives: Modification of the Covered Areas Provision for Reformulated Gasoline</p> <p>Control of Emissions of Air Pollution From Nonroad Diesel Engines</p> <p>Use of Alternative Analytical Test Methods in the Reformulated Gasoline Program and Revision of the Specification for the Mixing Chamber Associated With Animal Toxicity Testing of Fuels and Fuel Additives</p> <p>Control of Air Pollution From Motor Vehicles and New Motor Vehicle Engines; Modification of Federal On-board Diagnostic Regulations for Light-Duty Vehicles and Light-Duty Trucks; Extension of Acceptance of California OBD II Requirements</p>
1999	<p>Emission Standards for Turbine Engine Powered Airplanes; Final Rule AGENCY: Federal Aviation Administration (FAA), DOT</p> <p>Regulation of Fuels and Fuel Additives: Extension of the Reformulated Gasoline Program To the St. Louis, Missouri Moderate Ozone Nonattainment Area</p> <p>Phase 2 Emission Standards for New Nonroad Spark-Ignition Nonhandheld Engines At or Below 19 Kilowatts</p>

<b><u>Year</u></b>	<b><u>Timeline Event</u></b>
1999	<p>Control of Air Pollution From New Motor Vehicles; Compliance Programs for New Light-Duty Vehicles and Light-Duty Trucks; Final Rule</p> <p>Regulation of Fuel and Fuel Additives: Modification of Compliance Baseline</p> <p>Regulation of Fuels and Fuel Additives: Corrections to Standards and Requirements for Reformulated and Conventional Gasoline</p> <p>OMB Approvals Under the Paperwork Reduction Act Relating to the Federal Test Procedure for Emissions From Motor Vehicles; Technical Amendment</p> <p>Control of Emissions of Air Pollution From New Marine Compression-Ignition Engines at or Above 37 kW</p>
2000	<p>Control of Air Pollution From New Motor Vehicles: Tier 2 Motor Vehicle Emissions Standards and Gasoline Sulfur Control Requirements</p> <p>Amendments to the Test Procedures for Heavy-Duty Engines, and Light-Duty Vehicles and Trucks and Amendments to the Emission Standard Provisions for Gaseous Fueled Vehicles and Engines</p> <p>Optional Certification Streamlining Procedures for Light-Duty Vehicles, Light-Duty Trucks, and Heavy-Duty Engines for Original Equipment Manufacturers and for Aftermarket Conversion Manufacturers</p> <p>Phase 2 Emission Standards for New Nonroad Spark-Ignition Handheld Engines at or Below 19 Kilowatts and Minor Amendments to Emission Requirements Applicable to Small Spark-Ignition Engines and Marine Spark-Ignition Engines; Final Rule</p> <p>Additional Flexibility Amendments to Vehicle Inspection Maintenance Program Requirements; Amendment to the Final Rule</p> <p>Use of Alternative Analytical Test Methods in the Reformulated Gasoline Program</p> <p>Control of Emissions of Air Pollution from 2004 and Later Model Year Heavy-Duty Highway Engines and Vehicles; Revision of Light-Duty On-Board Diagnostics</p> <p>Control of Emissions From New Nonroad Spark-Ignition Engines Rated Above 19 Kilowatts and New Land-Based Recreational Spark-Ignition Engines</p>
2001	<p>Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements</p> <p>Control of Emissions of Hazardous Air Pollutants From Mobile Sources</p> <p>Amendments to Vehicle Inspection Maintenance Program Requirements Incorporating the Onboard Diagnostic Check</p> <p>Control of Air Pollution From New Motor Vehicles; Amendment to the Tier 2/Gasoline Sulfur Regulations; Final and Proposed Rule</p> <p>Regulation of Fuel and Fuel Additives: Reformulated Gasoline Adjustment</p> <p>Nonroad Diesel Emissions Standards Staff Technical Paper</p> <p>Regulation of Fuels and Fuel Additives: Modifications to Standards and Requirements for Reformulated and Conventional Gasoline</p>
2002	<p>Official Release of the MOBILE6 Motor Vehicle Emissions Factor Model</p> <p>Regulation of Fuel and Fuel Additives: Reformulated Gasoline Transition</p>

<u>Year</u>	<u>Timeline Event</u>
2002	<p>Prohibition on Gasoline Containing Lead or Lead Additives for Highway Use: Fuel Inlet Restrictor Exemption for Motorcycles</p> <p>Control of Air Pollution From New Motor Vehicles; Amendment to the Tier 2/Gasoline Sulfur Regulations</p> <p>Regulation of Fuels and Fuel Additives: Modifications to Reformulated Gasoline Covered Area Provisions</p> <p>Control of Air Pollution from New Motor Vehicles; Second Amendment to the Tier 2/Gasoline Sulfur Regulations</p> <p>Control of Air Pollution From New Motor Vehicles and New Motor Vehicle Engines; Non-Conformance Penalties for 2004 and later Model Year Emission Standards for Heavy-Duty Diesel Engines and Heavy-Duty Diesel Vehicles</p> <p>Health Assessment Document for Diesel Engine Exhaust</p> <p>Control of Emissions From Nonroad Large Spark-Ignition Engines, and Recreational Engines (Marine and Land-Based)</p> <p>Control of Air Pollution From New Motor Vehicles: Amendments to the Tier 2 Motor Vehicle Emission Regulations</p>
2003	<p>Control of Emissions From New Marine Compression-Ignition Engines at or Above 30 Liters Per Cylinder</p> <p>Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines; Modification of Federal On-Board Diagnostic Regulations for: Light-Duty Vehicles, Light-Duty Trucks, Medium Duty Passenger Vehicles, Complete Heavy Duty Vehicles and Engines Intended for Use in Heavy Duty Vehicles Weighing 14,000 Pounds GVWR or Less; Extension of Acceptance of California OBD II Requirements</p> <p>Control of Air Pollution from Motor Vehicles and New Motor Vehicle Engines; Revisions to Regulations Requiring Availability of Information for Use of On-Board Diagnostic Systems and Emission-Related Repairs on 1994 and Later Model Year Light-Duty Vehicles and Light-Duty Trucks and 2005 and Later Model Year Heavy-Duty Vehicles and Engines Weighing 14,000 Pounds Gross Vehicle Weight or Less</p> <p>Control of Emissions from New Marine Diesel Engines</p> <p>Regulation of Fuel and Fuel Additives: Gasoline and Diesel Fuel Test Method Update</p> <p>Use of Alternative Analytical Test Methods in the Reformulated Gasoline, Anti-Dumping, and Tier 2 Gasoline Sulfur Control Programs</p> <p>Standards of Performance for Bulk Gasoline Terminals and National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)</p>
2004	<p>Amendments to the Phase 2 Requirements for Spark-Ignition Nonroad Engines at or Below 19 Kilowatts</p> <p>Control of Emissions from Highway Motorcycles</p> <p>Final Rule to Implement the 8-Hour Ozone National Ambient Air Quality Standard--Phase 1</p>



<b><u>Year</u></b>	<b><u>Timeline Event</u></b>
2004	<p>Motor Vehicle and Engine Compliance Program Fees for: Light-Duty Vehicles; Light-Duty Trucks; Heavy-duty Vehicles and Engines; Nonroad Engines; and Motorcycles</p> <p>Approval and Promulgation of Implementation Plans; State of Missouri</p> <p>Air Quality Designations and Classifications for the 8-Hour Ozone; National Ambient Air Quality Standards; Early Action Compact Areas with Deferred Effective Dates</p> <p>Control of Emissions of Air Pollution from Nonroad Diesel Engines and Fuel Availability of Additional Information Supporting the Rule to Reduce Interstate Transport of Fine Particulate Matter and Ozone (Clean Air Interstate Rule)</p>
2005	<p>Control of Emissions of Air Pollution from New Motor Vehicles: In-Use Testing for Heavy-Duty Diesel Engines and Vehicles</p> <p>Test Procedures for Testing Highway and Nonroad Engines and Omnibus Technical Amendments</p> <p>Control of Emissions of Air Pollution from Diesel Fuel</p>

For information about the Clean Air Act, see the following website:  
<http://www.epa.gov/oar/caa/contents.html>

For information about any of the above federal milestones, see the following website:  
<http://www.epa.gov/otaq/url-fr.htm>